

Fileupload

File Upload A comprehensive file upload component that provides multiple layout variants, drag-and-drop functionality, file validation, and preview capabilities. Built with accessibility in mind and designed for various file upload scenarios including single file uploads, multiple file selections, and enterprise file management interfaces.

How to use ■ import { AavaFileUploadComponent } from "@aava/play-core" ; Note : The FileUpload component is standalone and includes all necessary dependencies for icon, button, tag, and common modules.

Basic Usage ■ Simple file upload with default layout and basic functionality.

Layout Variants ■ The component supports multiple layout options to fit different UI contexts and use cases:

default – Standard button and file display layout.

list – Displays files in a stacked list with remove options.

tags – Shows files as removable tags, suitable for compact interfaces.

icon – Drag-and-drop area with rich visual preview and side-by-side file listing.

Each layout offers unique ways to visualize uploaded files and actions.

Size Variants ■ Available Sizes ■ File Upload buttons support multiple size options to align with your design scale:

- xs (Extra Small) – For dense layouts.
- sm (Small) – Compact option.
- md (Medium) – Default size for general usage.
- lg (Large) – For prominent actions or primary uploads.
- xl (Extra Large) – When emphasizing upload as a major user task.

File Validation ■ Built-in validation ensures that uploaded files meet specific criteria:

Allowed Formats : Restrict file types with the allowedFormats input.

File Size Limit : Prevent large files using the maxFileSize property.

Duplicate Check : Detect and warn users about duplicate uploads.

Validation feedback is displayed inline with error messages.

Single vs Multiple ■ Configure whether users can upload a single file or multiple files at once: Use single FileMode = true for a single-file input. Keep it false to allow multi-selection.

The component automatically manages file replacement and count validation.

States & Customization ■ Customize button variants, labels, colors, and disabled states for consistent UI theming.

The component supports:

- Custom border and divider colors
- Dynamic styles via customStyles
- Disabled state to prevent interactions
- Configurable button variants for upload and delete actions

Display uploaded files in different preview formats:

- default – Shows file cards with color-coded type indicators.
- table – Tabular view with configurable columns (fileName, fileSize, fileType, etc.)

Each layout provides structured visibility of uploaded files and supports deletion.

Advanced Features ■ Explore extended functionality for advanced scenarios:

- Custom table columns for preview layouts.
- Dynamic color mapping for file types.
- Custom upload animations.
- Event emitters (selectedList, deletedList) for parent integration.

These options make the File Upload component flexible for enterprise-grade workflows.

Icon Customization ■ Adjust icon styles and placement for both upload and delete actions using these inputs:

- uploadIconName / deleteIconName – Change icon symbols.
- uploadIconPosition / deleteIconPosition – Control left, right, or icon-only layouts.
- tagIcon – Set custom tag icons for tag-based uploads. This allows seamless integration with your

application's visual language. Features ■ Upload Methods ■ Click to Upload : Traditional file selection via file picker Drag and Drop : Intuitive drag-and-drop file upload Multiple File Support : Upload single or multiple files File Replacement : Replace existing files in single file mode File Validation ■ Format Validation : Restrict file types based on extensions Size Validation : Enforce maximum file size limits Duplicate Prevention : Prevent duplicate file uploads Error Handling : Clear error messages for validation failures Layout Options ■ Inline : Compact form integration List : Simple list-based display Medium Variant : Enhanced with file tags Large Variant : Full-featured with preview Customizable : Flexible sizing and theming User Experience ■ Visual Feedback : Clear upload states and progress indicators File Preview : Preview uploaded files with metadata Responsive Design : Adapts to different screen sizes Accessibility : Full keyboard navigation and screen reader support API Reference ■ Inputs ■ Property Type Default Description theme 'light' | 'dark' 'light' Theme variant for the component uploaderId string " Unique identifier for the uploader enableAnimation boolean false Enable animation effects allowedFormats string[] ['jpeg', 'jpg', 'png', 'svg', 'doc', 'docx', 'xlsx', 'txt', 'pdf'] Allowed file extensions single FileMode boolean false Restrict to single file upload maxFiles number | null null Maximum number of files allowed componentTitle string 'Upload File Here' Title displayed in the upload area supportedFormatLabel string 'Supported file formats' Label for supported formats section maxFileSize number 3145728 (3MB) Maximum file size in bytes showDialogCloseIcon boolean true Show close icon in dialog mode showUploadButton boolean true Show upload button layout 'default' | 'inline' | 'list' | 'md-variant' | 'lg-variant' 'default' Layout variant for the component previewLayout 'default' | 'table' 'default' Preview layout type previewLayoutHeight number 0 Custom height for preview layout singleFileSelectionPosition 'right' | 'left' 'right' Position of single file selection button uploadButtonSize 'xs' | 'sm' | 'md' | 'lg' | 'xl' 'md' Upload button size uploadButtonLabel string 'Upload' Upload button label text uploadButtonVariant ButtonVariant 'primary' Upload button style variant uploadIconPosition 'left' | 'right' | 'only' 'left' Upload button icon position uploadIconName string 'upload' Upload button icon name deleteButtonSize 'xs' | 'sm' | 'md' | 'lg' | 'xl' 'md' Delete button size deleteButtonLabel string 'Remove All' Delete button label text deleteButtonVariant ButtonVariant 'secondary' Delete button style variant deleteIconPosition 'left' | 'right' | 'only' 'left' Delete button icon position deleteIconName string 'circle-x' Delete button icon name disabled boolean false Disable the file uploader component previewData any undefined External preview data customStyles Record<string, string> {} CSS custom properties override borderColor string '#9ca1aa' Border color for upload area ellipses 'start' | 'end' | 'middle' 'end' Ellipses style for long file names dividerColor string '#9ca1aa' Divider line color tagIcon string 'x' Icon for removable tags tableColumns customColumns[] Predefined column config Configurable columns for table layout fileTypeColors { [key: string]: string } undefined Dynamic colors for file types border string 'var(--fileupload-upload-area-default-border)' Border style for upload area Outputs ■ Event Type Description selectedList EventEmitter<File[]> Emitted when a list of files is selected deletedList EventEmitter<UploadFile[]> Emitted when a list of files is deleted Properties ■ Property Type Description uploadedFiles File[] Array of currently uploaded files fileUploadedSuccess boolean Whether file upload was successful fileFormatError boolean

Whether there's a file format error fileSizeError boolean Whether there's a file size error maxFilesError boolean Whether maximum files limit is exceeded isUploadActive boolean Whether upload is currently active viewAll boolean Whether to show all files or truncated list uniqueId string Unique identifier for the uploader Methods ■ Method Parameters Return Description openFileSelector() None void Open file selection dialog resetUpload() None void Reset upload state and clear files closeUpload() None void Close upload and reset state removeNewFile() file: File void Remove specific file from list getFileExtension() filename: string string Get file extension from filename toggleViewAll() None void Toggle between truncated and full file list allowAccepted() None string Get accepted file types string for input Computed Properties ■ Property Type Description allowedFormatsList string[] List of allowed file formats Layout Variants ■ Default Layout ■ The standard file upload interface with drag-and-drop support and file list display. Inline Layout ■ Compact uploader designed for form integration with minimal space requirements. Features: Single file display Upload button with icon File name with remove option Minimal footprint List Layout ■ Simple list-based file display with upload button and file management. Features: List of uploaded files File icons and names Individual file removal Multiple file support Medium Variant ■ Enhanced uploader with file tags and grid layout for better file organization. Features: File count header Grid-based file display File tags with remove functionality Bulk remove all option Empty state with format information Large Variant ■ Full-featured uploader with comprehensive file management and preview capabilities. Features: Drag-and-drop interface File preview panel Detailed file information File type icons Comprehensive error handling Bulk file management File Validation ■ Format Validation ■ The component validates file types based on the allowedFormats input: // Default allowed formats allowedFormats = ["jpeg" , "jpg" , "png" , "svg" , "doc" , "docx" , "xlsx" , "txt" , "pdf" ,] ; // Custom format restriction allowedFormats = ["pdf" , "doc" , "docx"] ; // Only document files Size Validation ■ File size validation is controlled by the maxFileSize input: // 3MB default maxFileSize = 3 * 1024 * 1024 ; // 10MB limit maxFileSize = 10 * 1024 * 1024 ; // 1MB limit maxFileSize = 1024 * 1024 ; Duplicate Prevention ■ The component automatically prevents duplicate file uploads by checking: File name File size File content (basic comparison) Error Handling ■ File Format Error ■ Displayed when an unsupported file type is selected: < div class = " error-message " role = " alert " > Invalid file type. Allowed formats: JPEG, JPG, PNG, SVG, DOC, DOCX, XLSX, TXT, PDF. </ div > File Size Error ■ Displayed when a file exceeds the maximum size limit: < div class = " error-message " role = " alert " > File is too large. Maximum size allowed is 3 MB </ div > Maximum Files Error ■ Displayed when the maximum file limit is exceeded: < div class = " error-message " role = " alert " > Maximum of 5 files allowed </ div > Best Practices ■ Design Guidelines ■ Layout Selection : Choose appropriate layout variant for your use case File Limits : Set reasonable file size and count limits Format Restrictions : Clearly communicate supported file types Visual Feedback : Provide clear upload states and progress indicators Error Handling : Display user-friendly error messages Accessibility ■ Keyboard Navigation : Ensure full keyboard support for all interactions Screen Reader Support : Provide clear labels and state announcements Drag and Drop : Support both mouse and keyboard file selection Error

Announcements : Properly announce validation errors Focus Management : Clear focus indicators and logical tab order Performance ■ File Validation : Validate files on selection for immediate feedback Memory Management : Handle large files appropriately Batch Processing : Consider batch uploads for multiple files Progress Indicators : Show upload progress for better UX Error Recovery : Allow users to retry failed uploads User Experience ■ Clear Instructions : Provide clear upload instructions and format requirements Visual Feedback : Show upload states and file information File Preview : Allow users to review files before upload Bulk Operations : Support bulk file removal and management Responsive Design : Ensure uploader works on all device sizes Integration ■ Form Integration : Properly integrate with Angular forms Event Handling : Use the comprehensive event system for upload management State Management : Coordinate upload state with your application File Processing : Handle file processing and storage appropriately Error Handling : Implement proper error handling and user feedback Responsive Behavior ■ Mobile Adaptations ■ The file upload component automatically adapts to mobile screens: Touch Optimization : Optimized touch targets for mobile interaction Mobile Layout : Appropriate layout adjustments for small screens File Selection : Mobile-friendly file selection methods Error Display : Mobile-optimized error message display Breakpoint Behavior ■ Desktop (>768px) : Full upload interface with all features Mobile ($\leq 768\text{px}$) : Compact layout with optimized spacing File Display : Responsive file list and preview Button Sizing : Appropriate button sizes for different screens Content Considerations ■ File Names : File names adapt to different screen widths Error Messages : Error messages maintain readability on small screens Upload Area : Upload area adapts to available space File List : File list maintains usability across screen sizes

```
<aava-file-upload
  [allowedFormats]=["pdf", "doc", "docx", "txt", "jpg", "png"]
  (selectedList)="onFileChange($event)"
>
</aava-file-upload>
```

```
selectedFiles: File[] = [];

onFileChange(files: File[]): void {
  console.log('Files changed:', files);
  this.selectedFiles = files;
}
```

```
<div>
  <h1>Default Layout</h1>
  <aava-file-upload
    layout="default"
    [allowedFormats]=["pdf", 'doc', 'jpg', 'png', 'txt']"
    [maxFiles]="3"
    (selectedList)="onFileChange($event)"
  >
</aava-file-upload>
<p>Single file with left-side positioning</p>
<aava-file-upload
  singleFileSelectionPosition="left"
  [allowedFormats]=["pdf", 'doc', 'jpg', 'png']"
  (selectedList)="onFileChange($event)"
>
</aava-file-upload>
</div>

<div>
  <h1>Icon Layout</h1>
  <aava-file-upload
    layout="icon"
    [allowedFormats]=["pdf", 'doc', 'jpg', 'png']"
    [maxFiles]="3"
    (selectedList)="onFileChange($event)"
  >
</aava-file-upload>
</div>

<div>
  <h1>List Layout</h1>
  <aava-file-upload
    layout="list"
    [allowedFormats]=["pdf", 'doc', 'jpg', 'png']"
    [maxFiles]="3"
    (selectedList)="onFileChange($event)"
  >
</aava-file-upload>
</div>

<div>
  <h1>Tags Layout</h1>
  <aava-file-upload
    layout="tags"
    [allowedFormats]=["pdf", 'doc', 'jpg', 'png']"
    [maxFiles]="3"
    (selectedList)="onFileChange($event)"
  >
</aava-file-upload>
</div>

<div>
  <h1>Table Layout</h1>
  <aava-file-upload
    (selectedList)="onFilesChanged($event, 'advanced')"
    (deletedList)="onDeletedFiles($event)"
```

```

[allowedFormats]="allowedFormats"
layout="icon"
[maxFileSize]="maxFileSize"
uploaderId="advanced"
deleteIconPosition="right"
deleteIconName="trash"
deleteButtonSize="sm"
previewLayout="table"
[previewData]="previewData"
>
</aava-file-upload>
</div>

---

previewData = [
  {
    fileName: '1.png',
    fileSize: '5kb',
    fileType: 'png',
  },
];
public maxFileSize = 3 * 1024 * 1024; //3MB
public allowedFormats: string[] = [
  'jpeg',
  'jpg',
  'png',
  'svg',
  'doc',
  'docx',
  'xlsx',
  'txt',
  'pdf',
];
onFileChange(files: File[]): void {
  console.log('Files changed:', files);
}

uploadedFiles: Record<string, File[]> = {};
upDisabled = false;

onFilesChanged(files: File[], uploaderId: string) {
  this.uploadedFiles[uploaderId] = [...files];
  this.upDisabled = true;

  console.log(
    `Files list changed for ${uploaderId}:`,
    files.map((f) => f.name)
  );
}

onDeleteFiles(files: UploadFile[]) {
  console.log('Deleted files:', files);
}

```



```
<div>
  <h1>Extra Small (xs)</h1>
  <aava-file-upload
    componentTitle="XS Upload"
    size="xs"
    uploadButtonSize="xs"
    deleteButtonSize="xs"
    [allowedFormats]=["pdf", 'doc', 'jpg']"
    [maxFiles] = "2"
    (selectedList)="onFileChange($event)"
  >
</aava-file-upload>
</div>

<div>
  <h1>Small (sm)</h1>
  <aava-file-upload
    componentTitle="Small Upload"
    size="sm"
    uploadButtonSize="sm"
    deleteButtonSize="sm"
    [allowedFormats]=["pdf", 'doc', 'jpg']"
    [maxFiles] = "2"
    (selectedList)="onFileChange($event)"
  >
</aava-file-upload>
</div>

<div>
  <h1>Medium (md)</h1>
  <aava-file-upload
    componentTitle="Medium Upload"
    size="md"
    uploadButtonSize="md"
    deleteButtonSize="md"
    [allowedFormats]=["pdf", 'doc', 'jpg']"
    [maxFiles] = "2"
    (selectedList)="onFileChange($event)"
  >
</aava-file-upload>
</div>

<div>
  <h1>Large (lg)</h1>
  <aava-file-upload
    componentTitle="Large Upload"
    size="lg"
    uploadButtonSize="lg"
    deleteButtonSize="lg"
    [allowedFormats]=["pdf", 'doc', 'jpg']"
    [maxFiles] = "2"
    (selectedList)="onFileChange($event)"
  >
</aava-file-upload>
</div>
```

```
<div>
  <h1>Extra Large (xl)</h1>
  <aava-file-upload
    componentTitle="XL Upload"
    size="xl"
    uploadButtonSize="xl"
    deleteButtonSize="xl"
    [allowedFormats]=["pdf", 'doc', 'jpg']"
    [maxFiles]="2"
    (selectedList)="onFileChange($event)"
  >
</aava-file-upload>
</div>

<div>
  <h1>Tags Layout with xs button size</h1>
  <aava-file-upload
    layout="tags"
    [allowedFormats]=["pdf", 'doc', 'jpg', 'png']"
    uploadButtonSize="xs"
    deleteButtonSize="xs"
    [maxFiles]="3"
    (selectedList)="onFileChange($event)"
  >
</aava-file-upload>
</div>

---  

  onFileChange(files: File[]): void {
    console.log('Files changed:', files);
}
```

```
<div>
  <h1>Format Validation</h1>
  <p>Only PDF and DOC files allowed</p>
  <aava-file-upload
    componentTitle="PDF/DOC Only"
    [allowedFormats]=["pdf", "doc"]
    [maxFiles]="3"
    (selectedList)="onFileChange($event)"
  >
  </aava-file-upload>
</div>

<div>
  <h1>Size Validation</h1>
  <p>Maximum 1MB per file</p>
  <aava-file-upload
    componentTitle="Max 1MB Files"
    [allowedFormats]=["pdf", "doc", "jpg", "png"]
    [maxFileSize]="1048576"
    [maxFiles]="3"
    (selectedList)="onFileChange($event)"
  >
  </aava-file-upload>
</div>

<div>
  <h1>Max Files Validation</h1>
  <p>Maximum 2 files allowed</p>
  <aava-file-upload
    componentTitle="Max 2 Files"
    [allowedFormats]=["pdf", "doc", "jpg", "png"]
    layout="tags"
    [maxFiles]="2"
    (selectedList)="onFileChange($event)"
  >
  </aava-file-upload>
</div>

<div>
  <h1>Duplicate Detection</h1>
  <p>Shows error for duplicate files</p>
  <aava-file-upload
    componentTitle="No Duplicates"
    layout="tags"
    [allowedFormats]=["pdf", "doc", "jpg", "png"]
    [showDuplicateError]="true"
    duplicateErrorText="This file already exists!"
    [maxFiles]="5"
    (selectedList)="onFileChange($event)"
  >
  </aava-file-upload>
</div>
```

```
onFileChange(files: File[]): void {
  console.log('Files changed:', files);
}
```

```

<div>
  <h1>Single File Mode</h1>
  <p>Only one file can be selected at a time</p>
  <aava-file-upload
    componentTitle="Select One File"
    [single FileMode]="true"
    layout="tags"
    [allowedFormats]=["pdf", 'doc', 'jpg', 'png']"
    (selectedList)="onSingleFileChange($event)"
  >
</aava-file-upload>

<div class="result" *ngIf="singleFile.length > 0">
  <strong>Selected:</strong> {{singleFile[0].name}}
</div>
</div>

<div>
  <h1>Multiple Files Mode</h1>
  <p>Multiple files can be selected (up to 5)</p>
  <aava-file-upload
    componentTitle="Select Multiple Files"
    [single FileMode]="false"
    layout="tags"
    [maxFiles]="3"
    [allowedFormats]=["pdf", 'doc', 'jpg', 'png']"
    (selectedList)="onMultipleFileChange($event)"
  >
</aava-file-upload>

<div class="result" *ngIf="multipleFiles.length > 0">
  <strong>Selected Files:</strong> {{multipleFiles.length}}
  <ul>
    <li *ngFor="let file of multipleFiles">{{file.name}}</li>
  </ul>
</div>
</div>

---

singleFile: File[] = [];
multipleFiles: File[] = [];

onSingleFileChange(files: File[]): void {
  console.log('Single file changed:', files);
  this.singleFile = files;
}

onMultipleFileChange(files: File[]): void {
  console.log('Multiple files changed:', files);
  this.multipleFiles = files;
}

```

```
<div>
  <h1>Normal State</h1>
  <aava-file-upload
    [allowedFormats]=["pdf", "doc", "jpg", "png"]"
    [maxFiles]="3"
    (selectedList)="onFileChange($event)"
  >
</aava-file-upload>
</div>

<div>
  <h1>Disabled State</h1>
  <aava-file-upload
    [disabled]="true"
    [allowedFormats]=["pdf", "doc", "jpg", "png"]"
    [maxFiles]="3"
    (selectedList)="onFileChange($event)"
  >
</aava-file-upload>
</div>

<div>
  <h1>Custom Styling</h1>
  <aava-file-upload
    componentTitle="Custom Colors"
    [allowedFormats]=["pdf", "doc", "jpg", "png"]"
    layout="tags"
    [maxFiles]="3"
    borderColor="green"
    dividerColor="green"
    [customStyles]="{{'--fileupload-upload-area-default-border': '2px dashed #007bff'}}"
    (selectedList)="onFileChange($event)"
  >
</aava-file-upload>
</div>

<div>
  <h1>Custom Button Variants</h1>
  <aava-file-upload
    componentTitle="Custom Buttons"
    uploadButtonVariant="secondary"
    deleteButtonVariant="danger"
    layout="tags"
    uploadButtonLabel="Choose Files"
    deleteButtonLabel="Clear All"
    [allowedFormats]=["pdf", "doc", "jpg", "png"]"
    [maxFiles]="3"
    (selectedList)="onFileChange($event)"
    (deletedList)="onFilesDeleted($event)"
  >
</aava-file-upload>
</div>

<div>
  <h1>Animation Enabled</h1>
  <aava-file-upload
```

```

componentTitle="Animated Upload"
[enableAnimation]="true"
layout="tags"
[allowedFormats]=["pdf", 'doc', 'jpg', 'png']"
[maxFiles]="3"
(selectedList)="onFileChange($event)"
>
</aava-file-upload>
</div>

<div>
<h1>Custom Icons</h1>
<aava-file-upload
  componentTitle="Custom Icons"
  uploadIconName="folder"
  deleteIconName="trash-2"
  tagIcon="x-circle"
  [allowedFormats]=["pdf", 'doc', 'jpg', 'png']"
  [maxFiles]="3"
  (selectedList)="onFileChange($event)"
>
</aava-file-upload>
</div>

<div class="result" *ngIf="selectedFiles.length > 0">
  <strong>Files Selected:</strong> {{selectedFiles.length}}
</div>

<div class="result" *ngIf="deletedFiles.length > 0">
  <strong>Files Deleted:</strong> {{deletedFiles.length}}
</div>

---

selectedFiles: File[] = [];
deletedFiles: UploadFile[] = [];

onFileChange(files: File[]): void {
  console.log('Files changed:', files);
  this.selectedFiles = files;
}

onFilesDeleted(deletedFiles: UploadFile[]): void {
  console.log('Files deleted:', deletedFiles);
  this.deletedFiles = deletedFiles;
}

```

■ No code found

■ No code found

■ No code found